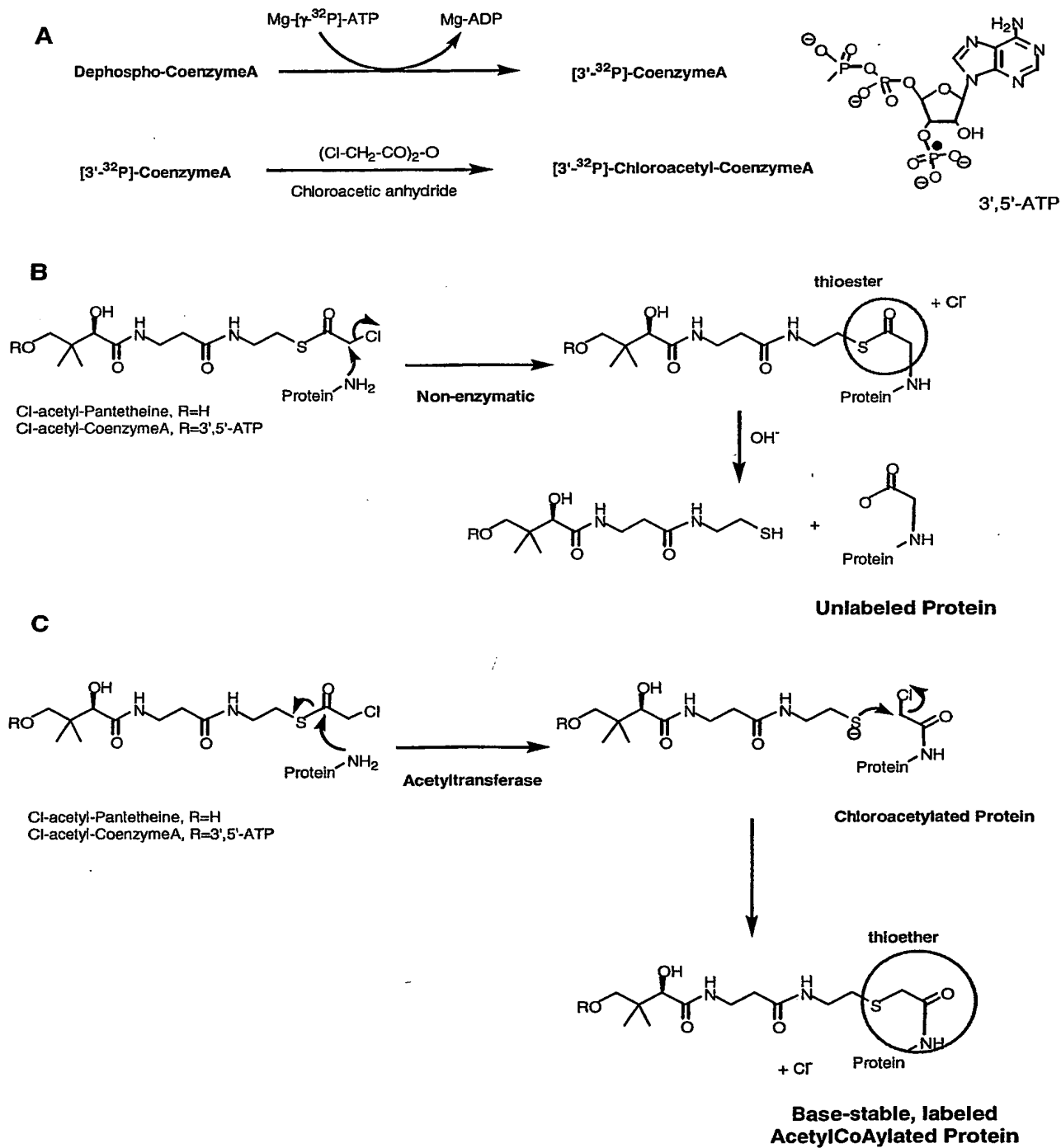


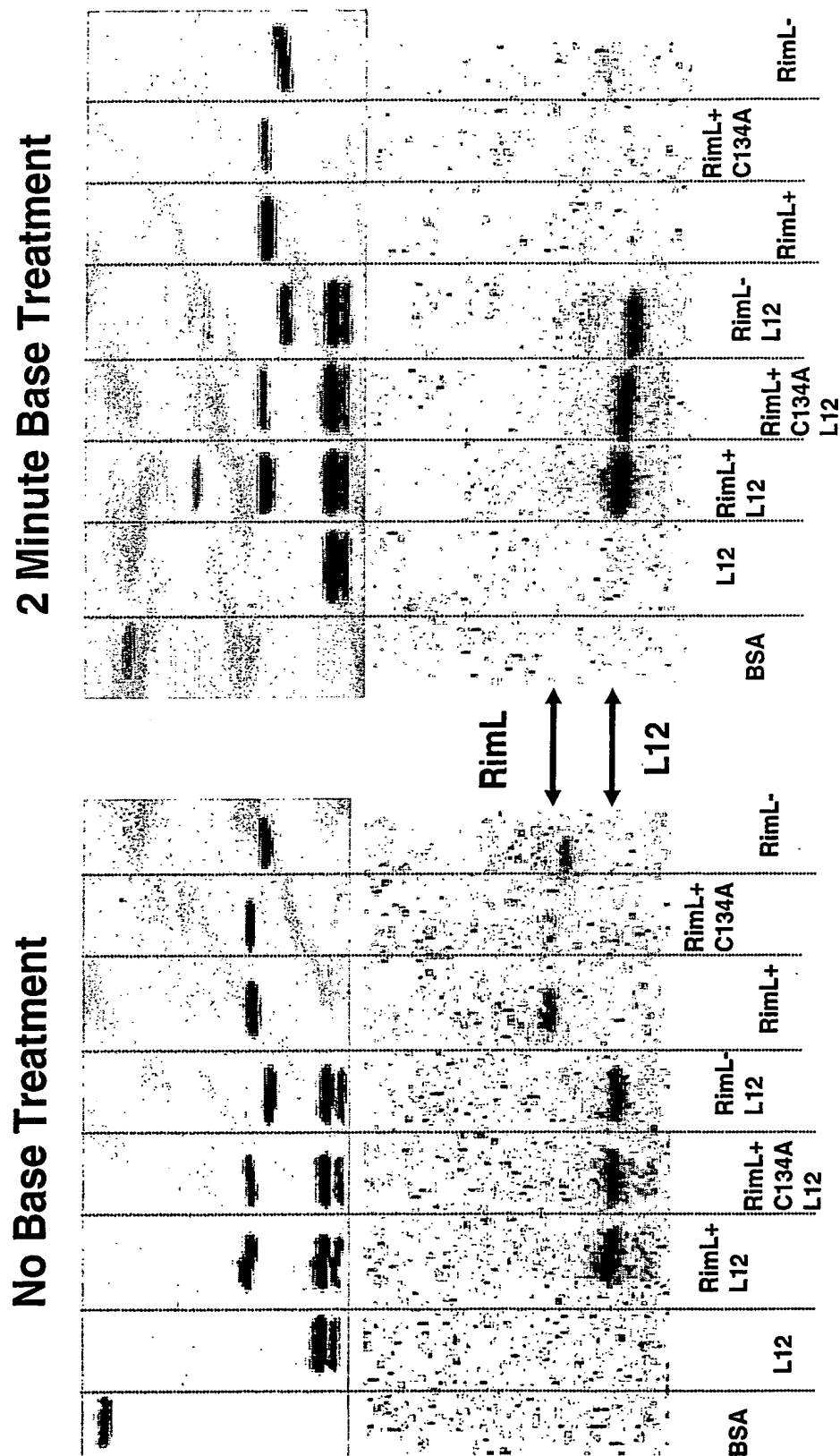
1/7

FIG. 1

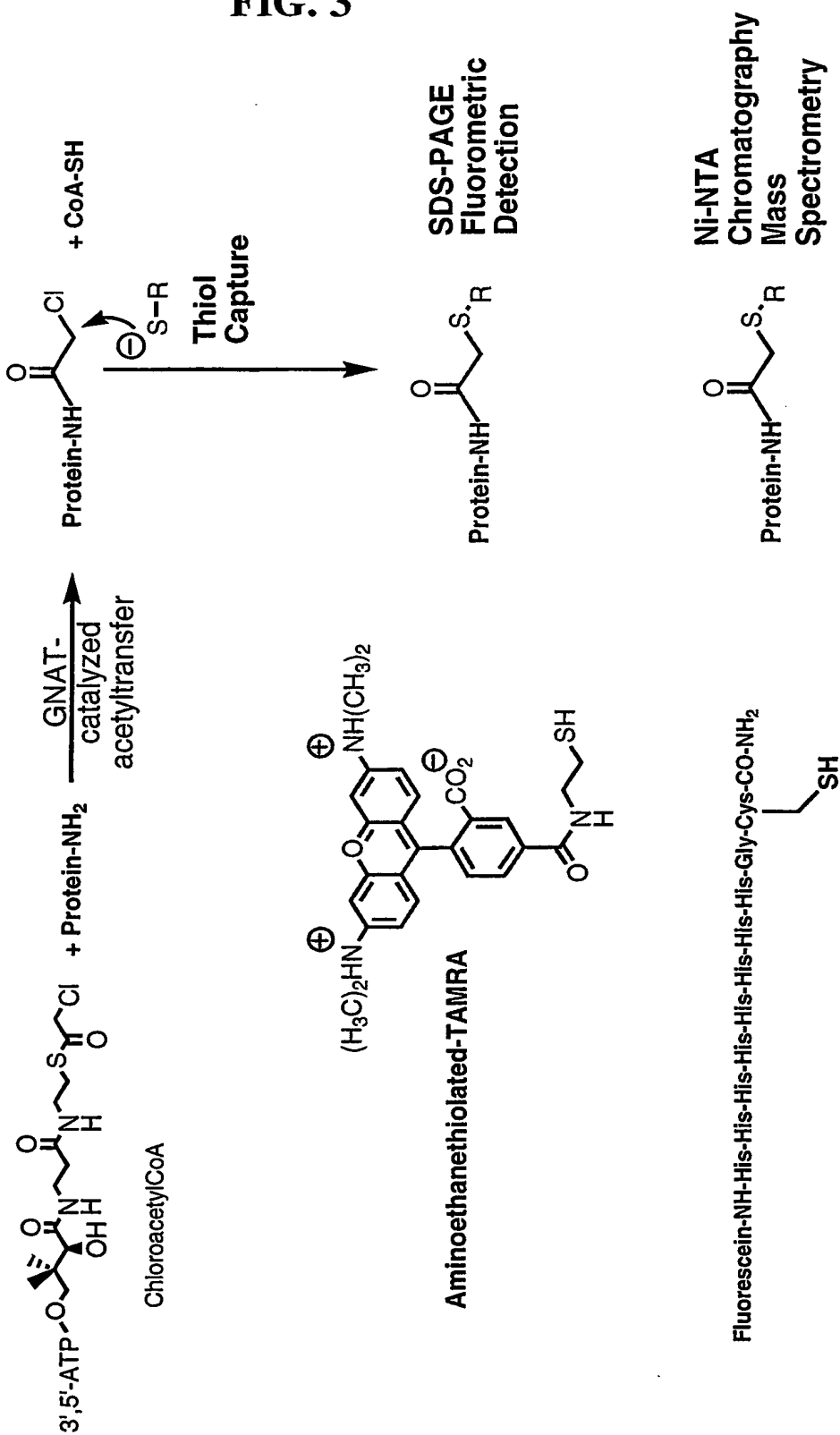


2/7
FIG. 2

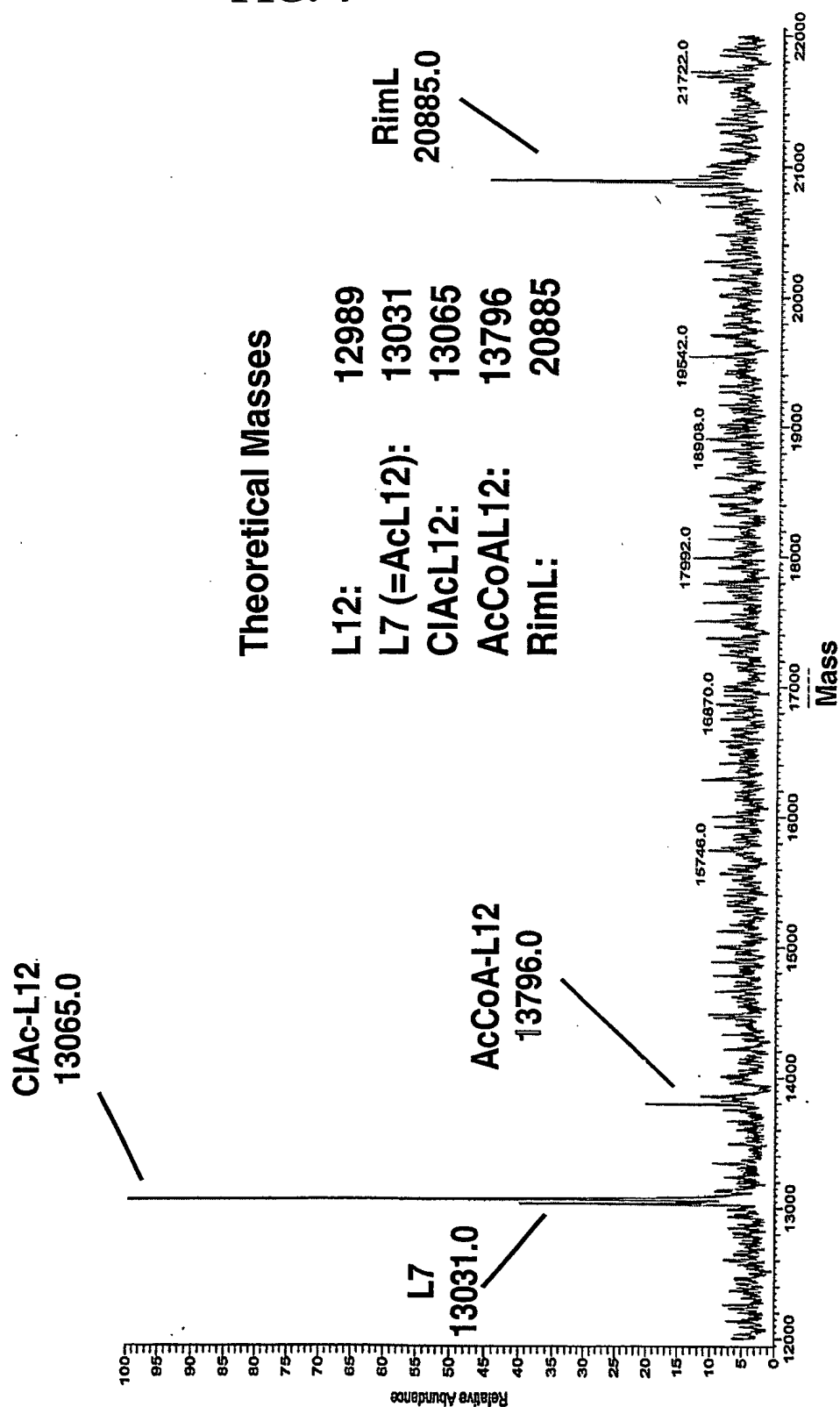
Labeling of L12 by RimL & [³²P]-CIACoA



Proteome Profiling of GNAT Substrates



Best Available Copy

4/7
FIG. 4**Mass Spectrometry of RimL-catalyzed AcetylCoAylation of L12**

Best Available Copy

Affinity Labeling of Acetyltransferase Substrates

Cl-acetylation or Br-acetylation

50mM Tris, pH 7.5

RimL 2uM

L12 40 uM

ClAcCoA, BrAcCoA 250 uM

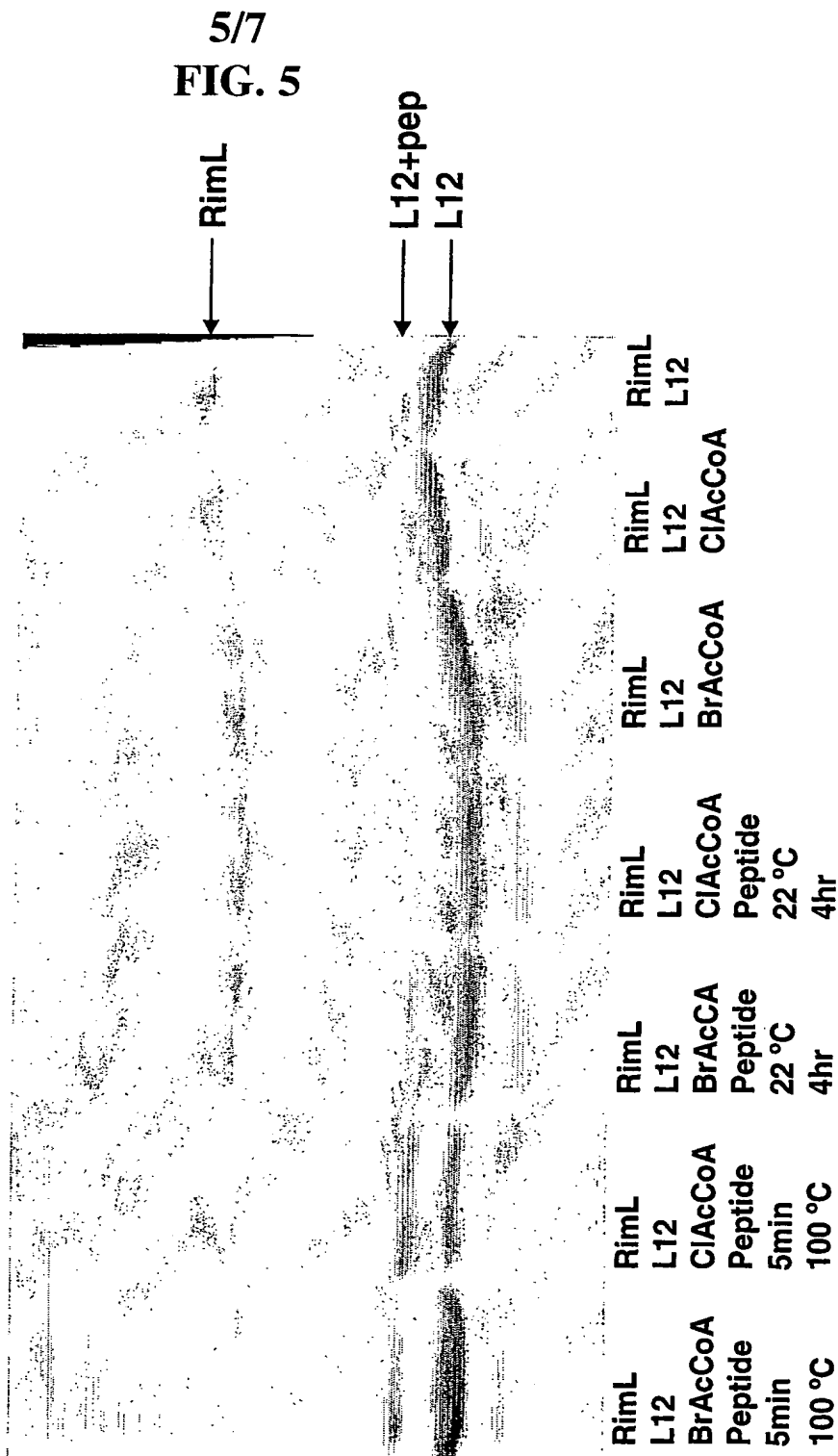
37°C for 1hr

Thiol capture peptide

100mM Tris, pH 8.5

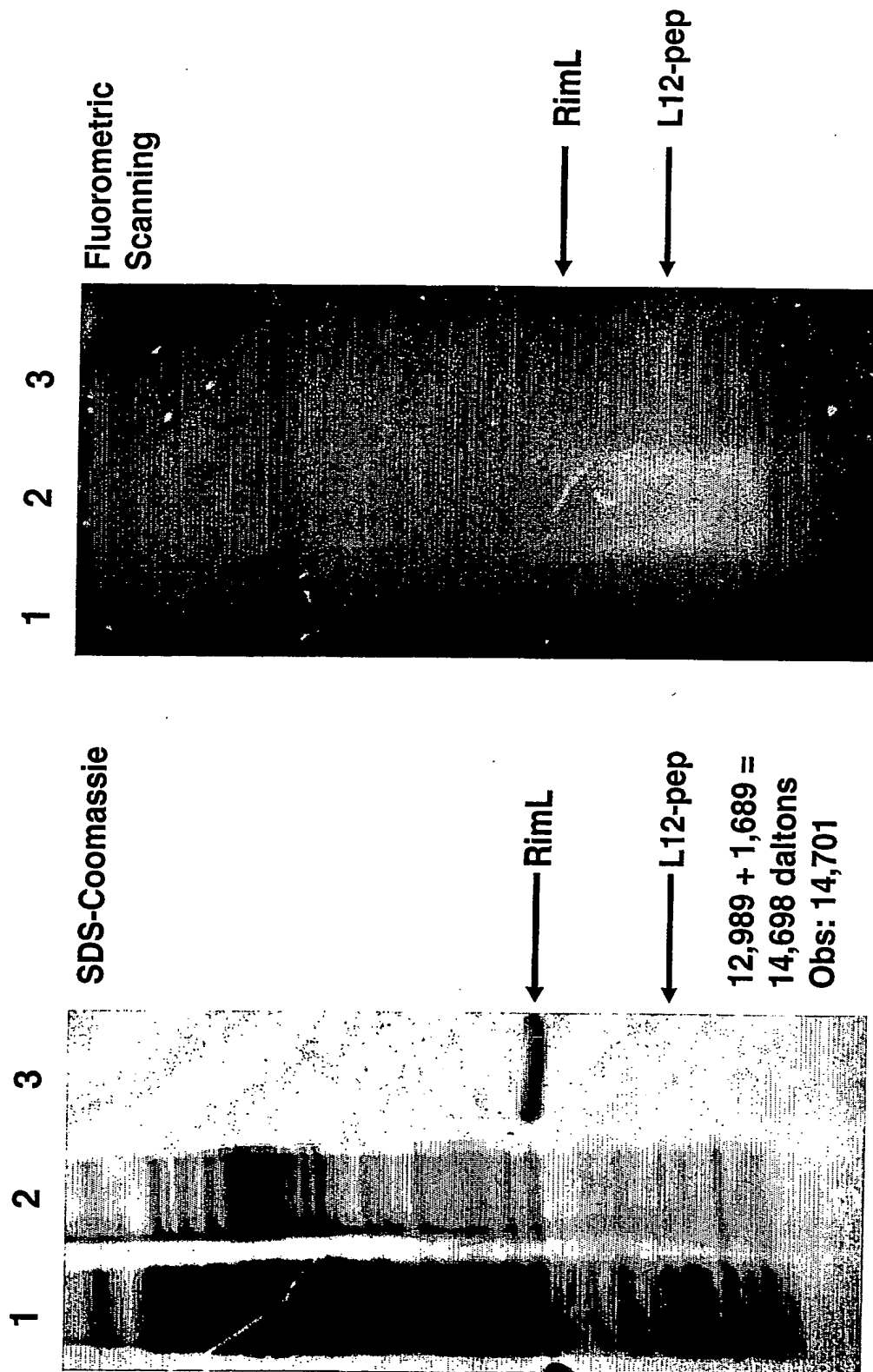
1mM thiol peptide (HHHHHHGGC)

Different temperatures



Labeling of L12 in Crude Cell Extracts

1: Crude cell lysate 2: Lysate + RimL + CIACoA + FI-His8-Cys 3: 2 after Ni-NTA



6/7
FIG. 6

Best Available Copy

7/7
FIG. 7

Chloroacetylation of histones by Hat1 Acetyltransferase

Comassie Staining



Chloroacetylation

50 mM Tris pH 7.3
200 μ M ClAcetylCoA
9 μ M histones (0.8 mg/ml)
0.4 μ M Hat1 (0.02mg/ml)

Fluorometric Detection



Thiol capture

3 mM TAMRA-CH₂CH₂SH
200 mM pH 8.4 Tris
4 hr

5 min 15 min 25 min

Best Available Copy